

DIALOG(R)File 351: Derwent WPI
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Preservatives comprising polyaminoacid derivatives, especially for use in cosmetic or pharmaceutical compositions, having broad-spectrum antimicrobial activity against bacteria, viruses, yeasts and fungi

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Patent Family: 8 patents, 27 countries

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
FR 2804286	A1	20010803	FR 20001208	A	20000128	200162	B
EP 1123653	A1	20010816	EP 2001400020	A	20010105	200162	E
JP 2001233724	A	20010828	JP 200120136	A	20010129	200164	E
US 20010036914	A1	20011101	US 2001770472	A	20010129	200168	E
US 6585962	B2	20030701	US 2001770472	A	20010129	200345	E
EP 1123653	B1	20031217	EP 2001400020	A	20010105	200404	E
DE 60101486	E	20040129	DE 60101486	A	20010105	200416	E
			EP 2001400020	A	20010105		
ES 2213671	T3	20040901	EP 2001400020	A	20010105	200458	E

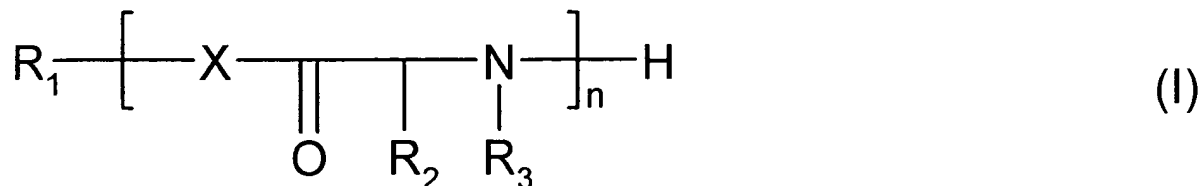
Priority Applications (no., kind, date): FR 20001208 A 20000128

Patent Details						
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
FR 2804286	A1	FR	17	0		
EP 1123653	A1	FR				
Regional Designated States,Original	AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR					
JP 2001233724	A	JA	9			
EP 1123653	B1	FR				
Regional Designated States,Original	AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR					
DE 60101486	E	DE			Application	EP 2001400020
					Based on OPI patent	EP 1123653
ES 2213671	T3	ES			Application	EP 2001400020

Alerting Abstract FR A1

NOVELTY - The use of polyaminoacid derivatives (I) as preservatives is new.

DESCRIPTION - The use of polyaminoacid derivative(s) of formula (I) or their salts as preservatives is claimed.



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X= O, S, NH or NR";

R"= linear or branched, saturated or unsaturated 1-6C hydrocarbyl;

R₁= H; linear or branched, saturated or unsaturated 1-40C hydrocarbyl (optionally substituted by one or more of OH and/or NRR' and/or interrupted by one or more of N, O or Si); -CH(COOH)-(CH₂)_sR₄; or -(CH₂)_m-CH(NH₂)-COOH;

R, R'= H or as R";

s= 0-4;

R₄= H, NH₂, OH, SH, CH(OH)Me, CONH₂, NH-C(NH₂)-NH, Ph, C₆H₄OH or 1H-imidazol-4-yl;

m= 3-5;

R₂= H; linear or branched, saturated or unsaturated 1-8C hydrocarbyl; or CH₂Ph, CH₂C₆H₄OH, CH₂OH, CH(OH)Me or -(CH₂)_m-NH₂;

R₃= H or as R"; and

n= number of average value more than 1, such that (I) has molecular weight 100-200000, the repeating units being the same or different.

INDEPENDENT CLAIMS are also included for:

1. a method for preserving cosmetic or pharmaceutical compositions, involving incorporation of (I); and
2. cosmetic or pharmaceutical compositions containing (I) as preservative.

ACTIVITY - Antibacterial; virucide; fungicide. The number of *Escherichia coli*, *Pseudomonas aeruginosa*, *Enterococcus faecalis* and *Candida albicans* was reduced to less than 200 per ml in all cases (compared with more than 10⁶ per ml in controls) on contact for 7 days with an aqueous composition containing 0.05 wt. % of a polyaminoacid (Ia) obtained by reacting sarcosine N-

carboxy-anhydride with oleylamine (degree of polymerization 10.5).

MECHANISM OF ACTION - None given.

USE - (I) show antimicrobial (especially antibacterial, antiviral, anti-yeast and/or antifungal) activity, and are especially used as preservatives in cosmetic or pharmaceutical compositions (all claimed). The compositions specifically contain (I) at 0.001-30 (preferably 0.01-15, especially 0.5-5) wt. %; and consist of:

1. facial, body or lip make-up products (e.g. color foundation, blusher, eye-shadow, masking stick, eye-liner, mascara, lipstick, nail varnish or nail-care product);
2. cosmetic or dermatological care products for the skin of the face, body, scalp or lips (specifically a lip care base; fixing base for lipstick; sunscreen or artificial tanning composition; facial care or treatment composition (e.g. a day or night, antiwrinkle or moisturizing product); face matting product; cleaning or make-up removal gel or cream; body protection or care milk; or cleansing milk);
3. deodorants, after-shave gels or lotions or depilatory creams;
4. pharmaceutical compositions;
5. solid compositions such as soaps or cleansing packs;
6. aerosol compositions containing pressurized propellant;
7. hair care compositions, especially a shampoo, plaiting lotion, treatment lotion, styling gel or cream, dyeing composition (especially for oxidation dyeing and possibly in the form of a dyeing shampoo), restructuring composition, perming composition, antiparasitic shampoo, anti-dandruff lotion or shampoo or medicated shampoo for seborrhea treatment; or
8. buccal-dental compositions, e.g. toothpastes (all claimed).

(I) have previously been used for moisturization and hair treatment; see .

ADVANTAGE - (I) show potent, broad-spectrum antimicrobial activity, are non-toxic, non-allergenic and non-irritating, have a clearly defined chemical structure, are easy to prepare on an industrial scale, and have good solubility in and compatibility with conventional cosmetic media (especially aqueous media).

I. Original Publication Data by Authority

Original Abstracts:

L'invention concerne l'utilisation de certains derives de polyaminoacides repondant a la forme suivante: [CF 8000.0001]comme agents conservateurs dans des compositions cosmetiques ou dermatologiques, notamment destinees a une application topique.

Processes for preserving compositions, such as cosmetic and dermatological compositions, which may be intended for topical applications, through the use of at least one certain polyamino acid derivatives. Cosmetic and pharmaceutical compositions comprising at least one certain polyamino acid derivatives [C00001]

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